# EAST Search History

| S130 | 103 | S129 and (battery cell module).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:49 |
|---|---|---|---|---|---|---|
| S131 | 87 | ((battery adj operat$4) adj (vehicle car automobile auto)).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:52 |
| S132 | 20124 | (((battery adj operat$4) electric) adj (vehicle car automobile auto)).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:52 |
| S133 | 215 | S132 and (monitor$4 measur$4 determin$4) adj vehicle | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 16:03 |
| S134 | 1751 | S132 and (monitor$4 measur$4 determin$4) with vehicle | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:56 |

# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 36 | (("2,104,769") or ("2,104,773") or ("2,l87,197") or ("2,717,045") or ("3,867,681") or ("3,870,855") or ("3,898,547") or ("3,904,947") or ("3,977,490") or ("4,218,644") or ("4,435,675") or ("4,724,332") or ("4,840,855") or ("4,976,327") or ("5,015,545") or ("5,031,712") or ("5,142,162") or ("5,215,834") or ("5,323,737") or ("5,332,958") or ("5,627,448") or ("5,646,507") or ("5,650,710") or ("5,672,973") or ("5,773,962") or ("5,864,106") or ("5,937,664") or ("6,107,779") or ("6,300,763") or ("6,362,594") or ("6,424,157") or ("6,437,537") or ("6,481,230") or ("6,541,942")).PN. | USPAT; USOCR | OR | OFF | 2005/07/11 12:48 |
| S2 | 49 | (("5631536") or ("5670861") or ("5773962") or ("5202617") or ("5548200") or ("5952813") or ("6225780") or ("6225780") or ("4309644") or ("5594318") or ("5929596") or ("4146825") or ("4258304") or ("5200688") or ("5289103") or ("5309073") or ("5327066") or ("5545967") or ("5594317") or ("5596258") or ("5600222") or ("5646507") or ("5659240") or ("5666042") or ("5712549") or ("5717310") or ("5727372") or ("5734237") or ("5742229") or ("5751137") or ("5783872") or ("5793189") or ("5803215") or ("5821755") or ("5864223") or ("5881559") or ("5926004") or ("5939865") or ("5969507") or ("5977744") or ("6548985") or ("6741065") or ("4330742") or ("4836444") or ("5670830") or ("5910714") or ("6040683") or ("6081205") or ("6104160") or ("6232743")).PN. | USPAT; USOCR | OR | OFF | 2005/06/27 17:19 |
| S4 | 41 | S3 and cool$4 | USPAT | OR | ON | 2005/06/27 18:00 |
| S5 | 415 | (320/150).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/27 18:00 |
| S6 | 112 | S5 and cool$4 | USPAT | OR | ON | 2005/06/28 16:03 |
| S7 | 30 | S6 and fan | USPAT | OR | ON | 2005/06/27 18:00 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S8 | 3 | ("4474862" \| "5585204" \| "5932365").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/28 15:55 |
| S9 | 1278 | (361/694,695).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/28 16:06 |
| S10 | 1088 | (361/695).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/28 16:06 |
| S11 | 98 | S10 and battery | USPAT | OR | ON | 2005/06/28 16:56 |
| S15 | 415 | (320/150).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/29 12:03 |
| S20 | 122 | S15 and (vehicle car automobile) | USPAT | OR | ON | 2005/06/29 16:59 |
| S21 | 3 | ("4474862" \| "5585204" \| "5932365").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/29 14:38 |
| S22 | 0 | 429/62,61 | USPAT | OR | ON | 2005/06/30 09:46 |
| S23 | 523 | (429/62,61).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/30 09:46 |
| S24 | 98 | S23 and (vehicle car automobile) | USPAT | OR | OFF | 2005/07/08 17:59 |
| S25 | 12 | ("3110633" \| "3309234" \| "4331209" \| "4864974" \| "4980588" \| "5036803" \| "5058660" \| "5280852" \| "5291960" \| "5531285").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/30 12:27 |
| S28 | 217 | (320/104).CCLS. | USPAT; USOCR | OR | OFF | 2005/06/30 13:52 |
| S29 | 1 | ("5461299").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/30 17:29 |
| S30 | 518 | (fan blower) with cool$4 with (battery cell) and (vehicle car automobile) | USPAT | OR | ON | 2005/07/05 17:24 |
| S31 | 294 | S30 and charg$4 | USPAT | OR | ON | 2005/06/30 17:33 |
| S32 | 80 | cooling control battery charging | US-PGPUB | SAME | ON | 2005/07/05 12:15 |
| S33 | 33 | cooling control battery charging | US-PGPUB | WITH | ON | 2005/07/05 15:19 |
| S35 | 85 | sensor charg$4 (start or begin) (battery or cell or module) | USPAT | WITH | ON | 2005/07/05 15:37 |
| S36 | 405 | detect$3 charg$4 (start or begin) (battery or cell or module) | USPAT | WITH | ON | 2005/07/05 15:37 |
| S37 | 149 | detect$3 charg$4 (start or begin) (battery or cell or module) and (vehicle or car or automobile) | USPAT | WITH | ON | 2005/07/05 15:37 |
| S42 | 108 | connect$4 with (battery cell module) with charg$4 same (fan blower) and (vehicle car automobile) | USPAT | OR | ON | 2005/07/06 15:42 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S46 | 1 | ("6188202").PN. | USPAT; USOCR | OR | OFF | 2005/07/06 17:00 |
| S47 | 1 | ("6411063").PN. | USPAT; USOCR | OR | OFF | 2005/07/06 18:14 |
| S48 | 1 | ("5652500").PN. | USPAT; USOCR | OR | OFF | 2005/07/07 11:36 |
| S54 | 1 | ("6087805").PN. | USPAT; USOCR | OR | OFF | 2005/07/08 13:35 |
| S59 | 1 | ("5,844,398").PN. | USPAT; USOCR | OR | OFF | 2005/07/07 17:51 |
| S61 | 1 | ("6859013").PN. | USPAT; USOCR | OR | OFF | 2005/07/08 14:17 |
| S62 | 3 | ("5814788" \| "5869969" \| "6347029").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/08 14:18 |
| S63 | 192 | (320/139).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/08 14:19 |
| S64 | 8 | S63 and fan | USPAT | OR | ON | 2005/07/08 14:22 |
| S65 | 218 | (320/104).CCLS. | USPAT; USOCR | OR | OFF | 2005/07/08 14:22 |
| S66 | 35 | S65 and (fan blower) | USPAT | OR | ON | 2005/07/08 14:38 |
| S67 | 1 | ("6411063").PN. | USPAT; USOCR | OR | OFF | 2005/07/08 14:43 |
| S71 | 26 | (US-5323099-$ or US-5461299-$ or US-5583418-$ or US-5647450-$ or US-5652500-$ or US-5844398-$ or US-5937664-$ or US-5982152-$ or US-6087805-$ or US-6138466-$ or US-6188202-$ or US-6316907-$ or US-6344728-$ or US-6362594-$ or US-6362600-$ or US-6411063-$ or US-6422027-$ or US-6433509-$ or US-6437537-$ or US-6569556-$ or US-6597572-$ or US-6624615-$ or US-6705101-$ or US-6750630-$ or US-6762590-$ or US-6859013-$).did. | USPAT | OR | OFF | 2005/07/08 16:38 |
| S72 | 20 | S71 and fan | USPAT | OR | OFF | 2005/07/08 16:39 |
| S73 | 1055 | (switch relay) with (battery cell module) with (fan blower) | USPAT | OR | ON | 2005/07/11 12:54 |
| S74 | 687 | S73 and (connect or series) | USPAT | OR | ON | 2005/07/11 13:05 |
| S75 | 0 | "100911839".an. | USPAT | OR | OFF | 2005/07/11 13:06 |
| S76 | 0 | "100911839".ap. | USPAT | OR | OFF | 2005/07/11 13:06 |
| S77 | 0 | "100911839".ap. | US-PGPUB; USPAT | OR | OFF | 2005/07/11 13:59 |

# EAST Search History

| S78 | 9840 | filter with fan | US-PGPUB; USPAT | OR | ON | 2005/07/11 14:16 |
|---|---|---|---|---|---|---|
| S79 | 352 | filter with fan with (switch relay) | US-PGPUB; USPAT | OR | ON | 2005/07/11 14:17 |
| S80 | 39 | filter with between with switch with fan | USPAT | OR | ON | 2005/07/11 14:20 |
| S81 | 0 | filter between switch fan | USPAT | NEAR | ON | 2005/07/11 14:21 |
| S82 | 0 | filter between switch fan | USPAT | ADJ | ON | 2005/07/11 14:21 |
| S83 | 1 | filter switch fan | USPAT | NEAR | ON | 2005/07/11 14:21 |
| S85 | 220 | filter switch fan | USPAT | WITH | ON | 2005/07/11 14:33 |
| S86 | 0 | filter (between series) switch fan | USPAT | WITH | ON | 2005/07/11 14:34 |
| S87 | 39 | filter (between or series) switch fan | USPAT | WITH | ON | 2005/07/11 14:34 |
| S101 | 8456 | impedance with motor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 18:59 |
| S102 | 1146 | (measur$4 detect$4 monitor$4) with impedance with motor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:00 |
| S103 | 76 | S102 and (fan blower) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:00 |
| S104 | 26 | S103 and charg$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:05 |

| S10 5 | 36 | (("2,104,769") or ("2,104,773") or ("2,l87,197") or ("2,717,045") or ("3,867,681") or ("3,870,855") or ("3,898,547") or ("3,904,947") or ("3,977,490") or ("4,218,644") or ("4,435,675") or ("4,724,332") or ("4,840,855") or ("4,976,327") or ("5,015,545") or ("5,031,712") or ("5,142,162") or ("5,215,834") or ("5,323,737") or ("5,332,958") or ("5,627,448") or ("5,646,507") or ("5,650,710") or ("5,672,973") or ("5,773,962") or ("5,864,106") or ("5,937,664") or ("6,107,779") or ("6,300,763") or ("6,362,594") or ("6,424,157") or ("6,437,537") or ("6,481,230") or ("6,541,942")).PN. | USPAT; USOCR | OR | OFF | 2006/07/27 19:05 |
|---|---|---|---|---|---|---|
| S10 6 | 49 | (("5631536") or ("5670861") or ("5773962") or ("5202617") or ("5548200") or ("5952813") or ("6225780") or ("6225780") or ("4309644") or ("5594318") or ("5929596") or ("4146825") or ("4258304") or ("5200688") or ("5289103") or ("5309073") or ("5327066") or ("5545967") or ("5594317") or ("5596258") or ("5600222") or ("5646507") or ("5659240") or ("5666042") or ("5712549") or ("5717310") or ("5727372") or ("5734237") or ("5742229") or ("5751137") or ("5783872") or ("5793189") or ("5803215") or ("5821755") or ("5864223") or ("5881559") or ("5926004") or ("5939865") or ("5969507") or ("5977744") or ("6548985") or ("6741065") or ("4330742") or ("4836444") or ("5670830") or ("5910714") or ("6040683") or ("6081205") or ("6104160") or ("6232743")).PN. | USPAT; USOCR | OR | OFF | 2006/07/27 19:05 |
| S10 7 | 0 | S105 and S106 and imped$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:05 |
| S10 8 | 14869 | ("320").CLAS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/07/27 19:31 |

| S10 9 | 5649 | S108 and (vehicle car motor auto automobile) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:33 |
|---|---|---|---|---|---|---|
| S11 0 | 4442 | S109 and time | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:32 |
| S11 1 | 5461 | S109 and (battery cell module) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:32 |
| S11 2 | 1658 | S108 and ((vehicle car motor auto automobile) with (time)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:35 |
| S11 3 | 1442 | S112 and charge | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:33 |
| S11 4 | 1196 | S112 and (monitor$4 measur$4 detect$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:36 |
| S11 5 | 114 | S112 and (monitor$4 measur$4 detect$4) with remain$4 with charge | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/27 19:37 |
| S11 6 | 1 | ("6,449,870").PN. | USPAT; USOCR | OR | OFF | 2006/08/01 19:49 |
| S11 7 | 4 | ("6522148" \| "6573688" \| "6608468").PN. OR ("6762590"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 14:24 |
| S11 8 | 2343 | (battery cell module) same (charg$4) same (cool$4 fan) same (switch relay) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 14:25 |
| S11 9 | 1033 | (battery cell module) same (charg$4) same (cool$4 fan) with (switch relay) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 14:25 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S12 0 | 820 | ((battery cell module) with (charg$4)) same ((cool$4 fan) with (switch relay)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 14:26 |
| S12 1 | 404 | S120 and (vehicle car automobile) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 14:46 |
| S12 2 | 124 | ((battery cell module) with (charg$4)) same ((cool$4 fan) with (switch relay)) same (connect) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 14:27 |
| S12 3 | 1146 | (measur$4 detect$4 monitor$4) with impedance with motor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 18:36 |
| S12 4 | 76 | S123 and (fan blower) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/31 18:36 |
| S12 5 | 7540 | (monitor$4 with (vehicle auto automobile car) with operation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:21 |
| S12 6 | 135 | S125 and ((battery cell module) with charg$4).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:38 |
| S12 7 | 187 | (monitor$4 with (vehicle auto automobile car) with operation) with (use usage non$use) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:22 |
| S12 8 | 1225 | S125 and (electric with (vehicle car auto automobile)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:39 |
| S12 9 | 313 | S125 and (electric with (vehicle car auto automobile)).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/01 13:39 |